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# वस्त्रादि — ए-ट्विल पटसन के बोरे — विशिष्टि

( दूसरा पुनरीक्षण )

*Indian Standard*

# TEXTILES — A-TWILL JUTE BAGS — SPECIFICATION

*( Second Revision )*

First Reprint APRIL 1999

( Incorporating Amendment No. 1)

UDC 621·798·151 [ 677·13 ]

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BUREAU OF INDIAN STANDARDS

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG

NEW DELHI 110002

*April* 1995

Price Group 1

Jute and Jute Products Sectional Committee, TX 03

## FOREWORD

This Indian Standard ( Second Revision ) was adopted by the Bureau of Indian Standards after the draft finalized by the Jute and Jute Products Sectional Committee had been approved by the Textile Division Council.

This standard was first published in 1961 and it was subsequently revised in 1964. This standard has been revised again so as to ensure compatibility regarding general requirements of A-twill jute bags with those specified in IS 9113 : 1992 'Textiles — Jute sacking — General requirements ( *first revision* )'.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values ( *revised* )'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

# *Indian Standard*

# TEXTILES — A-TWILL JUTE BAGS — SPECIFICATION

## *( Second Revision )*

## 1 SCOPE

This standard prescribes constructional deta ils and other requirements of A-twill jute bags.

## 2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

| *IS No.* | *Title* |
|---|---|
| 1963 : 1981 | Method for determination of threads per unit length in woven fabrics ( *second revision* ) ( Reaffirmed April 1993 ) |
| 1969 : 1985 | Methods for determination of breaking load and elongation of woven textile fabrics ( *second revision* ) ( Reaffirmed April 1993 ) |
| 2873 : 1991 | Textiles — Packaging of jute products in bales — Specification ( *second revision* ) |
| 2969 : 1974 | Method for determination of oil content of jute yarn and fabrics ( *first revision* ) ( Reaffirmed March 1993 ) |
| 5476 : 1986 | Glossary of terms relating to jute ( *first revision* ) |
| 9030 : 1979 | Method for determination of seam strength of jute fabrics including their laminates ( Reaffirmed March 1992 ) |
| 9113 : 1993 | Textiles — Jute sacking—General requirements ( *first revision* ) |

## 3 TERMINOLOGY

For the purpose of this standard, the definitions given in IS 5476 : 1986 shall apply.

## 4 MANUFACTURE

### 4.1 Sacking

The bags shall be made from single piece of double warp, 2/1 twill weave jute sacking of uniform construction having nominal mass of 750 g/m² with warp running along the length of the bag. There shall be three blue stripes, or stripes as agreed to between the buyer and the seller, woven along the length of the bag. The constructional particulars of sacking used in the fabrication of the bags shall be such that the bag meets the requirement specified in Table 1.

### 4.2 Seam

The sides of the bags shall be sewn with overhead or herakle stitches on selvedge through two layers of sacking as specified in IS 9113 : 1993. The number of stitches per 10 cm shall be between 9 and 11.

### 4.3 Safety Stitch

A line of safety union stitch shall be provided at the inner edges of the overhead or herakle stitches ( *see* IS 9113 : 1993 ). The number of safety union stitches per 10 cm shall be between 9 and 11.

### 4.4 Hemming at the Mouth

Provisions of IS 9113 : 1993 shall apply.

### 4.5 Joined Bag

Provisions of IS 9113 : 1993 shall apply.

### 4.6 Freedom from Defects

The bags shall be generally free from weaving and sewing defects such as missing picks, holes, cuts, tears, floats, crushed selvedges, spots, stains, gap stitches, loose ends and frayed ends which effect the performance of the bag.

## 5 SPECIFIC REQUIREMENTS

**5.1** The bags shall conform to the requirements specified in Table 1.

**5.2** The bales containing the bags shall conform to the requirements specified in Table 2.

**5.3** The contract moisture regain shall be 20 percent.

## 6 PACKING

The bags shall be packed in bales as prescribed in IS 2873 : 1991 or as specified in the agreement between the buyer and the seller.

## 7 MARKING

**7.1** The bales shall be marked as prescribed in IS 2873 : 1991. Additional marking shall be made as stipulated by the buyer or required by the regulation or law in force.

**Table 1 Particulars of Bags**

( *Clauses* 4.1 *and* 5.1 )

| Sl No. | Characteristic | Requirement | Tolerance | Method of Test |
|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) |
| i) | Dimensions, cm ( *see* Note ): | | | |
| | a) Outside length | 112 | + 4 | Clause 8.3.2 of |
| | b) Outside width | 67.5 | − 0 | IS 9113 : 1993 |
| ii) | Corrected mass per bag, g | 1 190 | + 120<br>− 90 | Clause 8.5.2 of IS 9113 : 1993 |
| iii) | Ends per dm | 102 | ± 6 | IS 1963 : 1981 |
| iv) | Picks per dm | 35 | ± 2 | IS 1963 : 1981 |
| v) | Average breaking load of sacking [ revelled strip method, 10 cm × 20 cm ] *Min*, N ( kgf ): | | | IS 1969 : 1985 |
| | Warpway | 2 000 ( 204 ) | | |
| | Weftway | 1 765 ( 180 ) | | |
| vi) | Average breaking load of seam [ revelled strip method, 10 cm × 20 cm ] *Min*, N ( kgf ) | 657 ( 67 ) | | IS 9030 : 1979 |

NOTE — The buyer and the seller may agree to the dimensions other than those specified above. The tolerance of $^{+4}_{-0}$ cm shall apply on the dimensions.

The mass of such bag may be calculated by the method given in 5.3 of IS 9113 : 1992. However, a tolerance of $^{+10}_{-7.5}$ percent on the bag mass shall be permissible.

**Table 2 Requirements of Packed Bales**

( *Clause* 5.2 )

| Sl No. | Characteristic | Requirement | Methods of Test |
|---|---|---|---|
| (1) | (2) | (3) | (4) |
| i) | Total number of bags per bale ( *see* Note ) | 400 | Clause 8.9 of IS 9113 : 1993 |
| ii) | Number of joined bags per bundle of 25 bags | 1 | do |
| iii) | Contract mass of a bale | 476 | — |
| iv) | Corrected net mass of a bale | Not less than contract | Clause 8.1 of IS 9113 : 1993 |
| v) | Moisture regain, percent, *Max* | 22 | Clause 8.2 of IS 9113 : 1993 |
| vi) | Oil content on dry deoiled material basis, percent, *Max* | 8.0 | IS 2969 : 1974 |

NOTE — The number of bags per bale shall be 400 or as specified in an agreement between the buyer and the seller.

### 7.2 BIS Certification Marking

The bales may also be marked with the Standard Mark.

**7.2.1** The use of the Standard Mark is governed by the provisions of Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

## 8 SAMPLING AND CRITERIA FOR CONFORMITY

The sampling procedure and criteria for conformity as specified in IS 9113 : 1993 shall be followed.

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This Indian Standard has been developed from Doc: No. TX 03 (0084).

**Amendments Issued Since Publication**

| Amend No. | Date of Issue | Text Affected |
|---|---|---|
| | | |
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| | | |

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# AMENDMENT NO. 2 MAY 2002
# TO
# IS 1943 : 1995 TEXTILES — A-TWILL JUTE BAGS — SPECIFICATION

***( Second Revision )***

[*Page* 2, *Table* 2, *Sl No.* (vi), *column* 3 ] — Substitute '3' *for* '8.0'

( TX 03 )

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# AMENDMENT NO. 3 NOVEMBER 2002
# TO
# IS 1943 : 1995 TEXTILES — A-TWILL JUTE BAGS — SPECIFICATION

*( Second Revision )*

( *Pages* 1 *and* 2 ) — Substitute 'IS 9113:1993' *for* 'IS 9113:1992' wherever exists.

( *Page* 2, *Table* 1, *Note* ) — Designate the existing Note as Note 1 and insert Note 2 as under:

NOTE 2 — In case of bags having herakle stitching with safety stitch, the corrected mass per bag shall be 1 200 g instead of 1 190 g.

[ *Page* 2, *Table* 2, *Sl No.* (iii), *column* 2 ] — Substitute 'Contract mass of a bale, kg' *for* 'Contract mass of a bale'.

[ *Page* 2, *Table* 2, *Sl No.* (iii), *column* 3 ] — Substitute '480' *for* '476'.

[*Page* 2, *Table* 2, *Sl No.* (iv), *column* 3] — Substitute 'Not less than the contract mass' *for* 'Not less than contract'.

( TX 03 )

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# AMENDMENT NO. 4 JULY 2004
# TO
# IS 1943 : 1995 TEXTILES — A-TWILL JUTE BAGS — SPECIFICATION

*( Second Revision )*

( *Page* 1, *clause* **1** ) — Substitute the following for the existing:

'**1 SCOPE**

**1.1** This standard prescribes constructional details and other requirements of A-Twill Jute bags.

**1.2** The bags specified in the standard shall not be manually handled after packing material.'

( TX 03 )

Reprography Unit, BIS, New Delhi, India

# AMENDMENT NO. 5 OCTOBER 2005
# TO
# IS 1943 : 1995 TEXTILES — A-TWILL JUTE BAGS — SPECIFICATION

***( Second Revision )***

( *Page* 1, *clause* **4.1** ) — Insert the following note at the end of paragraph:

'NOTE — Mass of fabric in $g/m^2$ is given for guidance only.'

( TX 03 )

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